
$^{12}\text{C}(\pi^+, \pi^+ \text{p}) \quad 1978\text{Mo01,1980Aj01}$

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, C. G. Sheu		NP A880, 88 (2012)	1-Jan-2011

- 1974Gi08:** $^{12}\text{C}(\pi^+, \pi^+ \text{p})$ E=60, 112 MeV, measured $\sigma(\theta)$, $\sigma(E_{\text{p}}, \theta)$.
- 1977Be35:** $^{12}\text{C}(\pi^+, \pi^+ \text{p})$ E=170 MeV, measured integral σ , $\sigma(E_{\text{p}}, \theta)$. Deduced reaction mechanism.
- 1978Co02:** $^{12}\text{C}(\pi^+, \pi^+ \text{p})$ E=100 MeV, measured σ , $\pi^- \text{P-coin}$.
- 1978Mo01:** $^{12}\text{C}(\pi^+, X)$, (π^-, X) , E≈180 MeV; measured $\sigma(E_{\pi^-})/\sigma(E_{\pi^+})$.
- 1979Zi05:** $^{12}\text{C}(\pi^+, \pi^+ \text{P})$ E=180 MeV, measured ratio of σ . PWIA analysis.
- 1980Bu07:** $^{12}\text{C}(\pi^+, \pi^+ \text{p})$ E=291 MeV, measured $\sigma(\theta_{\pi^+}, E_{\pi^+})$.
- 1981Pi05:** $^{12}\text{C}(\pi^+, \pi^+ \text{p})$ E=245 MeV, measured $\sigma(\theta_{\pi}, \theta_{\text{p}}, E_{\text{p}})$, $\sigma(\theta_{\pi}, \theta_{\text{p}})$, $\sigma(\theta_{\pi^+})/\sigma(\theta_{\pi^-})$. Deduced consistency with quasifree scattering.
- 1981Zi01:** $^{12}\text{C}(\pi^+, \pi^+ \text{p})$ E=130-200 MeV, measured $\sigma(\theta_{\pi}, \theta_{\text{P}})$ vs scattered pion momentum.
- 1984Fa11:** $^{12}\text{C}(\pi^+, \pi^+ \text{p})$ E=220 MeV, measured $\sigma(\theta_{\pi}, E_{\pi})$, $\sigma(\theta_{\pi}, \theta_{\text{p}}, E_{\text{p}})$, $\sigma(\theta_{\pi}, \theta_{\text{p}}, E_{\pi})$, $\sigma(\theta_{\pi}, \theta_{\text{p}})$, $\sigma(\theta_{\pi}, \theta_{\text{p}})$ vs missing mass. Deduced reaction mechanism.
- 1984Tr09:** $^{12}\text{C}(\pi^+, \pi^+ \text{p})$ E≈resonance, measured $\sigma(\theta_{\text{p}}, \theta_{\pi})$. Deduced isobar resonance role.
- 1986Mo26:** $^{12}\text{C}(\pi^+, \pi^+ \text{p})$ E=250 MeV, measured $\sigma(\theta_{\pi}, \theta_{\text{p}})$ vs pion momentum.
- 1987Hu02:** $^{12}\text{C}(\pi^+, \pi^+ \text{p})$ E=130, 150 MeV, measured $\sigma(E_{\pi}, E_{\text{p}}, \theta_{-\pi})$. DWIA analysis.
- 1989Yo06:** $^{12}\text{C}(\pi^+, \pi^+ \text{P})$ E=180 MeV, measured $\sigma(\theta_{\pi}, \theta_{\text{p}}, E_{\pi})$. Deduced $\sigma(\pi^+, \pi^+ \text{p})/\sigma(\pi^-, \pi^- \text{p})$ near GDR. DWIA analysis.
- 1998Mo09:** $^{12}\text{C}(\pi^+, \pi^+ \text{p})$ E=500 MeV, measured $\sigma(\text{DCX})/\sigma(\text{NCX})$. Deduced nuclear wave function $\Delta+$ components.

^{11}B Levels

E(level)	J^π
0	
2.12×10^3	
4.44×10^3	$5/2^-$